

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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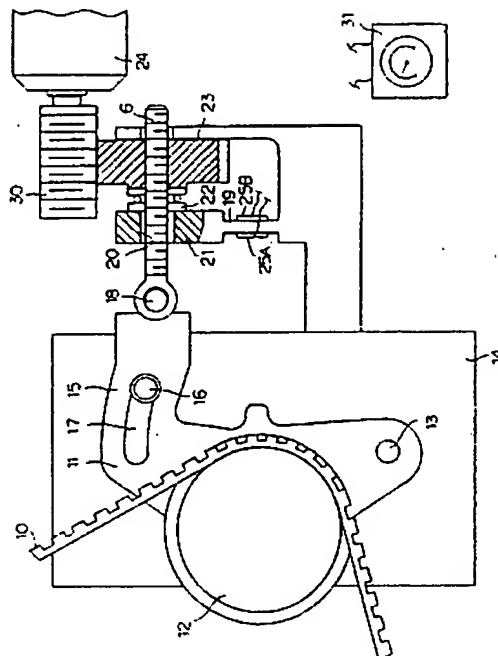
APPLICATION DATE : 19-11-87  
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APPLICANT : MITSUBOSHI BELTING LTD;

INVENTOR : FUJIMOTO NAOKI;

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TITLE : BELT TENSION DEVICE



**ABSTRACT :** PURPOSE: To promote the adjustment of belt tension, even while a pulley is in operation, by rotatably mounting the pulley to the intermediate part of a tension arm with its one end serving as the swivel center and moving a continuous rod with a thread, provided in the other end of the tension arm, to the right and left by a worm gear rotated by an electric motor.

**CONSTITUTION:** A tension pulley 12 is mounted to the intermediate part of a tension arm 11, and its one end is swivelably fixed to a pin 13. A protruding part 15 is provided in the other end part of the arm 11, and it is guided swiveling along a guide bar 16 by a long hole 17. A threaded continuous bar 6 is rotatably mounted to a protrusion pin 18 provided in the point end of the protruding part 15, and a worm gear 23 is screwed to a threaded part. When tension of a belt 10 is necessary to be changed, a motor 24 normally or reversely rotates normally and reversely rotating the worm gear 23 through a worm shaft 30, and the continuous rod 6, screwed to the worm gear 23, moves to the right and left. Accordingly, the pulley 12 moves the belt 10 in its tightened or loosened direction, and the tension of the belt can be changed even during operation of the pulley.

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